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(54) Title: HIV-1 ENVELOPE GLYCOPROTEINS STABILIZED BY FLEXIBLE LINKERS AS POTENT ENTRY INHIBITORS AND IMMUNOGENS

(57) Abstract: This invention relates generally to immune responses to human immunodeficiency virus coat protein gp160 presented in the form of antigenic compositions, nucleic acids encoding human immunodeficiency virus coat proteins, and vaccines. The invention also relates to methods for production of antigenic compositions containing human immunodeficiency virus coat protein, nucleic acids encoding human immunodeficiency virus coat proteins, and human immunodeficiency virus vaccines. The invention comprises gp120 and gp41 subunits of the human immunodeficiency virus coat protein covalently linked through a peptide linker, as well as additional complexes including those comprising the human immunodeficiency virus coat protein and its natural cellular receptor molecules.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12P 21/06; A61K 39/00, 38/00; C07K 17/00; C07H 21/04
US CL : 435/69.1; 424/185.1; 514/2; 530/350; 536/23.4

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST, Medline

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	CHOW et al. Conserved structures exposed in HIV-1 envelope glycoproteins stabilized by flexible linkers as potent entry inhibitors and potential immunogens. Biochemistry. June 04, 2002, Vol. 41, No. 22, pages 7176-82, see entire document.	1-84
Y	US 5,635,599 A (PASTAN et al.) 03 June 1997 (03.06.97), see SEQ ID NO: 55.	1-84
E	US 2003/016677 A1 (ZÄUDERER et al.) 04 September 2003 (04.09.03), SEQ ID NO: 19.	1-84

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☐ See patent family annex.

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